

AMENDMENTS

In the Claims:

Claims 1-22. (Cancelled)

23. **(Currently Amended)** A vaginal indwelling thermometer for use in the vagina of a subject mammal, the thermometer comprising:
- a housing comprising:
 - a temperature sensing means which generates data indicative of the *per vaginam* temperature of the subject mammal;
 - a temperature recording means integral with the temperature sensing means, wherein the temperature recording means records temperature data generated by the temperature sensing means; and
 - a wired data lead connection port,
- wherein the vaginal indwelling thermometer is configured to be left in said vagina of said subject mammal continuously for at least one week without causing discomfort to said subject.
24. (Previously Presented) An indwelling thermometer according to claim 23, wherein the temperature sensing means is an electronic, chemical or mechanical temperature sensing means.
25. (Previously Presented) An indwelling thermometer according to claim 23, wherein the temperature sensing means comprises a thermocouple linkage or a thermistor.
26. (Previously Presented) An indwelling thermometer according to claim 23, wherein the housing comprises a biocompatible material.

27. (Previously Presented) An indwelling thermometer according to claim 26, wherein the housing is formed from a material selected from the group consisting of acrylonitrile-butadiene-styrene terpolymer, copolyester elastomer, ethylene acrylic acid, ethylene methylacrylate, ethylene-vinyl-acetate, high-density polyethylene, high-impact polystyrene, liquid crystal polymer, low-density polyethylene, linear low-density polyethylene, poly(butylene terephthalate), polycarbonate, polycarbonate, alloy/blend, polycarbonate-PET alloy/blend, polyethylene, polyetherimide, poly(ethylene terephthalate), polypropylene, poly(phenylene oxide), polyurethane, polyvinyl chloride, styrene acrylonitrile, styrene block copolymer, syndiotactic polystyrene, thermoplastic elastomer, thermoplastic olefin, thermoplastic urethane, ultra low-density polyethylene, very low-density polyethylene, silicone, biodegradable copolymers, copolymer coatings, pseudo-poly(amino-acids), ceramic composites, thermoplastic-fiber composites, pyrolytic carbon and pyrolite.
28. (Previously Presented) An indwelling thermometer according to claim 23, wherein the temperature sensing means is configured to record data every 20 minutes.
29. (Previously Presented) An indwelling thermometer according to claim 23, wherein said subject mammal is human.
30. (Previously Presented) An indwelling thermometer according to claim 23, wherein the thermometer is configured to be worn *per vaginem* for at least one entire menstrual cycle.
31. (Previously Presented) An indwelling thermometer according to claim 26, wherein the thermometer is configured to be used to determine ovulation in the subject mammal.

Claims 32-35. (**Cancelled**)

36. **(Currently Amended)** A device for the prediction of ovulation in a subject mammal, the device comprising:
a housing configured to be left in a vagina of said subject mammal for [[for]] at least one week without causing discomfort to said subject;
a temperature sensing means located within said housing for generating data indicative of the *per vaginam* temperature of the subject mammal;
a temperature recording means located within the housing which records the temperature data generated by the temperature sensing means; and
a wired data ~~lead~~ connection port.
37. **(Previously Presented)** A device according to claim 36, wherein said temperature sensing means is an electronic, chemical or mechanical temperature sensing means.
38. **(Previously Presented)** A device according to claim 36, wherein said temperature sensing means comprises a thermocouple linkage or a thermistor.
39. **(Previously Presented)** A device according to claim 36, wherein said subject mammal is human.
40. **(Previously Presented)** A device according to claim 36, wherein said housing comprises a biocompatible material.
41. **(Previously Presented)** A device according to claim 40, wherein said housing is formed from a material selected from the group consisting of acrylonitrile-butadiene-styrene terpolymer, copolyester elastomer, ethylene acrylic acid, ethylene methylacrylate, ethylene-vinyl-acetate, high-density polyethylene, high-impact polystyrene, liquid crystal polymer, low-density polyethylene, linear low-

density polyethylene, poly(butylene terephthalate), polycarbonate, polycarbonate, alloy/blend, polycarbonate-PET alloy/blend, polyethylene, polyetherimide, poly(ethylene terephthalate), polypropylene, poly(phenylene oxide), polyurethane, polyvinyl chloride, styrene acrylonitrile, styrene block copolymer, syndiotactic polystyrene, thermoplastic elastomer, thermoplastic olefin, thermoplastic urethane, ultra low-density polyethylene, very low-density polyethylene, silicone, biodegradable copolymers, copolymer coatings, pseudo-poly(amino-acids), ceramic composites, thermoplastic-fiber composites, pyrolytic carbon and pyrolite.

42. (Previously Presented) A device according to claim 36, wherein said temperature sensing means is configured to record data every 20 minutes.

43-44. (Cancelled)

45. (**Currently Amended**) A device for the detection of infection in a subject mammal, the device comprising:
- a housing configured to be left in an ear or a vagina of said subject mammal without causing discomfort to said subject;
 - a temperature sensing means located within said housing for generating data indicative of the core body temperature of the subject mammal;
 - a temperature recording means located within the housing which record the temperature data generated by the temperature sensing means; and
 - a wired data lead connection port.

46. (Previously Presented) A device according to claim 45, wherein said temperature sensing means is an electronic, chemical or mechanical temperature sensing means.

47. (Previously Presented) A device according to claim 45, wherein said temperature sensing means comprises a thermocouple linkage or a thermistor.
48. (Previously Presented) A device according to claim 45, wherein said subject mammal is human.
49. (Previously Presented) A device according to claim 45, wherein said housing comprises a biocompatible material.
50. (Previously Presented) A device according to claim 49, wherein said housing is formed from a material selected from the group consisting of acrylonitrile-butadiene-styrene terpolymer, copolyester elastomer, ethylene acrylic acid, ethylene methylacrylate, ethylene-vinyl-acetate, high-density polyethylene, high-impact polystyrene, liquid crystal polymer, low-density polyethylene, linear low-density polyethylene, poly(butylene terephthalate), polycarbonate, polycarbonate, alloy/blend, polycarbonate-PET alloy/blend, polyethylene, polyetherimide, poly(ethylene terephthalate), polypropylene, poly(phenylene oxide), polyurethane, polyvinyl chloride, styrene acrylonitrile, styrene block copolymer, syndiotactic polystyrene, thermoplastic elastomer, thermoplastic olefin, thermoplastic urethane, ultra low-density polyethylene, very low-density polyethylene, silicone, biodegradable copolymers, copolymer coatings, pseudo-poly(amino-acids), ceramic composites, thermoplastic-fiber composites, pyrolytic carbon and pyrolite.
51. (Previously Presented) A device according to claim 45, wherein said temperature sensing means is configured to record data every 20 minutes.
52. (**Cancelled**)
53. (**Cancelled**)

New Claims:

54. (New) The indwelling thermometer according to claim 23, further comprising a signaler configured to provide a continued signal.
55. (New) The indwelling thermometer according to claim 54, wherein the signaler is selected from the group consisting of an indicator device, a light, a vibrator, a radio signal generator, a buzzer, an alarm and a telemetry system.
56. (New) The device according to claim 36, further comprising a signaler configured to provide a continued signal.
57. (New) The device according to claim 56, wherein the signaler is selected from the group consisting of an indicator device, a light, a vibrator, a radio signal generator, a buzzer, an alarm and a telemetry system.
58. (New) The device according to claim 45, further comprising a signaler configured to provide a continued signal.
59. (New) The device according to claim 58, wherein the signaler is selected from the group consisting of an indicator device, a light, a vibrator, a radio signal generator, a buzzer, an alarm and a telemetry system.
60. (New) A vaginal indwelling thermometer for use in the vagina of a subject mammal, the thermometer comprising:
a housing comprising:
a temperature sensing means which generates data indicative of the *per vaginem* temperature of the subject mammal;

a temperature recording means integral with the temperature sensing means, wherein the temperature recording means records temperature data generated by the temperature sensing means; and a signaler configured to provide a continued signal,

wherein the vaginal indwelling thermometer is configured to be left in said vagina of said subject mammal continuously for at least one week without causing discomfort to said subject.

61. (New) A device for the prediction of ovulation in a subject mammal, the device comprising:

a housing configured to be left in a vagina of said subject mammal for at least one week without causing discomfort to said subject;

a temperature sensing means located within said housing for generating data indicative of the *per vaginem* temperature of the subject mammal;

a temperature recording means located within the housing which records the temperature data generated by the temperature sensing means; and

a signaler configured to provide a continued signal.

62. (New) A device for the detection of infection in a subject mammal, the device comprising:

a housing configured to be left in an ear or a vagina of said subject mammal without causing discomfort to said subject;

a temperature sensing means located within said housing for generating data indicative of the core body temperature of the subject mammal;

a temperature recording means located within the housing which record the temperature data generated by the temperature sensing means; and

a signaler configured to provide a continued signal.